FORM PTO-1449 (Modified)	ATTY. DOCKET NO. 24729-0128	SERIAL NO. 09/808,898
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		
	APPLICANT BRYAN et al.	
	FILING DATE March 15, 2001	GROUP 1642

1) Art that concerns isolation/cloning of GFP or Luciferase proteins and genes.

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
1 SWL	A	4 5 8 1 3 3 5	4/8/86	Baldwin	435	172.3	12/1/82
1	B	4 9 6 8 6 1 3	11/6/90	Masuda *et al.*	435	172.3	07/26/88
1	C	5 0 9 3 2 4 0	3/3/92	Inouye *et al.*	435	69.1	10/8/87
1	D	5 0 9 8 8 2 8	3/24/92	Geiger *et al.*	435	7.72	10/24/86
1	E	5 1 3 9 9 3 7	8/18/92	Inouye *et al.*	435	69.1	11/18/88
1	F	5 1 6 2 2 2 7	11/10/92	Cormier	435	252.33	03/17/88
1	G	5 1 8 2 2 0 2	1/26/93	Kajiyama *et al.*	435	189	8/5/91
1	H	5 1 9 6 5 2 4	3/23/93	Gustafson *et al.*	536	23.2	01/06/89
1	I	5 2 1 9 7 3 7	6/15/93	Kajiyama *et al.*	435	69.1	3/26/91
1	J	5 2 2 9 2 8 5	7/20/93	Kajiyama *et al.*	435	189	6/23/92
1	K	5 2 9 2 6 5 8	3/8/94	Cormier *et al.*	435	252.33	6/17/93
1	L	5 3 3 0 9 0 6	7/19/94	Kajiyama *et al.*	435	189	06/15/93
1	M	5 3 5 2 5 9 8	10/4/94	Kajiyama *et al.*	435	189	8/29/91
1	N	5 3 6 0 7 2 8	11/1/94	Prasher	435	189	12/1/92
1	O	5 4 1 8 1 5 5	05/23/95	Cormier *et al.*	435	189	12/14/93
1	P	5 4 2 2 2 6 6	06/6/95	Cormier *et al.*	435	252.3	10/9/92
1	Q	5 6 0 4 1 2 3	02/18/97	Kazami *et al.*	435	189	06/15/94
1	R	5 6 2 5 0 4 8	4/29/97	Tsien *et al.*	536	23.4	11/10/94
1	S	5 7 4 1 6 6 8	04/21/98	Ward *et al.*	435	69.1	05/26/95
1	T	5 7 7 7 0 7 9	07/07/98	Tsien *et al.*	530	350	11/20/96
1	U	5 8 0 4 3 8 7	09/08/98	Cormack *et al.*	435	6	01/31/97
1 SWL	V	5 8 7 4 3 0 4	02/23/99	Zolotukhin *et al.*	435	366	01/18/96

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes	Translation No
1 SWL	W	0 2 2 6 9 7 9	7/1/87	EP A2				
1	X	0 3 8 7 3 5 5	9/19/90	EP A1				
1	Y	0 5 4 0 0 6 4	5/5/93	EP A1				
1	Z	3 0 3 0 6 7 8	2/8/91	JP				X*
1	AA	4 2 5 8 2 8 8	09/14/92	JP				X*
1	AB	6 3 3 1 7 0 7 9	12/26/88	JP				X*
1 SWL	AC	7 2 2 2 5 9 0	08/22/95	JP				X*

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1 SWL	AD	8	7	0	3	3	0	4	6/4/87	PCT					
1	AE	9	0	0	1	5	4	2	02/22/90	PCT					
1	AF	9	2	1	5	6	7	3	09/17/92	PCT					X*
1	AG	9	5	0	7	4	6	3	3/16/95	PCT					
1	AH	9	5	1	8	8	5	3	07/13/95	PCT					
1	AI	9	5	2	1	1	9	1	8/10/95	PCT					
1	AJ	9	5	2	5	7	9	8	9/28/95	PCT					
1	AK	9	6	2	3	8	1	0	08/08/96	PCT					
1	AL	9	6	2	7	6	7	5	09/12/96	PCT					
1	AM	9	7	2	6	3	3	3	07/24/97	OCT					
1 SWL	AN	9	9	4	9	0	1	9	09/30/99	PCT					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
1 SWL	AO	Baldwin *et al.*, Active Center Studies on Bacterial Luciferase: Modification of the Enzyme with 2,4-Dinitrofluorobenzene, Biochemistry 20:512-517 (1981).
1	AP	Baldwin *et al.*, Cloning of the luciferase structural genes from *Vibro harveyi* and expression of bioluminescene in *Escherichia coli*, Biochemistry 23: 3663-3667 (1984)
1	AQ	Belas *et al.*, Bacterial bioluminescene: Isolation and expression of the luciferase genes from *Vibrio harveyi*, Science 218: 791-793 (1982)
1	AR	Blinks *et al.*, Multiple forms of the calcium-sensitive bioluminescent protein aequorin, Fed. Proc. 1435: 474 (1975)
1	AS	Casper *et al.* Expression of the green fluorescent protein-encoding gene from a tobacco mosaic virus-based vector Gene 173: 69-73 (1996)
1	AT	Chalfie, Green fluorescent protein, *Photochemistry and Photobiology*, 62(4):651-656 (1995)
1	AU	Charbonneau *et al.*, "Amino acid sequence of the calcium-dependent photoprotein aequorin," Biochem. 24:6762-6771 (1985)
1	AV	Chemical Abstract #115(5)43510b (citing, Japanese Patent Application No. JP 3-30678 Osaka)
1	AW	Cohn *et al.*, Nucleotide Sequence of the *lux*A Gene of *Vibrio harveyi* and the Complete Amino Acid Sequence of the Subunit of Bacterial Luciferase, *J. Biol. Chem.*, 260(10): 6139-6146; (1985)
1	AX	Cohn et al. "Cloning of the *Vibrio harveyi* luciferase genes: use of a synthetic oligonucleotide probe", Proc. Natl. Acad. Sci. U.S.A. 80(1):102-123 (1983)
1	AY	Database Derwent # 007778737 WPI Acc. No. 89-043849/198906 (citing, Japanese Patent Application No. JP 63317079, published December 26, 1988)
1	AZ	Database Derwent #008196500 (citing WO 9001542, Recombinant luciferase, fragments from it, and gene coding for it - the luciferase having increased stability and quantum yield)
1	BA	Database Derwent #010423635 WPI Acc. No. 95-324955/199542 (citing, Japanese Patent Application No. JP 7222590, published August 22, 1995)
1	BB	Database Derwent #008580311 WPI Acc. No. 91-084343/199112 (citing, Japanese Patent Application No. JP 3030678 published February 8, 1991)
1	BC	Database EMBL Nucleotide and Protein Sequences, AC=AF025844, Co-reporter vector pRL-Null, complete sequence, abstract, (1997)
1	BD	Database Derwent #009227258 WPI Acc. No. 92-354680/199243 (citing, Japanese Patent Application No. JP 4258288, published September 14, 1993)
1 SWL	BE	de Wet *et al.*, "Cloning and expression of the firefly luciferase gene in mammalian cells," Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications,

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SWL		DeLuca *et al.*, eds., pp. 368-371, Academic Press (1981)
1 SWL	BF	de Wet *et al.*, "Cloning firefly luciferase," Meth. Enzymol. 133:3-14 (1986)
1	BG	de Wet *et al.*, "Cloning of firefly luciferase cDNA and the expression of active luciferase in *Escherichia coli*," Proc. Natl. Acad. Sci. USA 82:7870-7873 (1985)
1	BH	Delagrave *et al.*, Red-shifted excitation mutants of the green fluorescent protein, *Bio/Technology* 13(2):151-154 (1995)
1	BI	Ehrig *et al.*, Green-fluorescent protein mutants with altered fluorence excitationspectra, *FEBS Letters* 367:163-166 (1995)
1	BJ	Engebrecht *et al.*, "Techniques for cloning and analyzing bioluminescence genes from marine bacteria," Meth. Enzymol. 133:83-99, 234 (1986)
1	BK	Engebrecht *et al.*, Bacterial bioluminescence: Isolation and genetic analysis of functions from *Vibrio fischeri*, Cell 32: 773-781 (1983)
1	BL	Engebrecht *et al.*, Identification of genes and gene products necessary for bacterial bioluminescene, Proc. Natl. Acad. Sci. USA 81: 4154-4158 (1984)
1	BM	Frackman *et al.*, "Cloning, organization, and expression of the bioluminescence genes of *Xenorhabdus luminescens*," J. Bacteriol. 172(10):5767-5773 (1990)
1	BN	Gast *et al.*, Separation of a blue fluorescence protein from bacterial luciferase. Biochem. Biophys. Res. Commun. 80(1): 14-21 (1978)
1	BO	Goto *et al.*, Preliminary report on the pink-colored *Cypridina* luciferase, a natural model of the luciferin-luciferase complex, in Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications, DeLuca *et al.*, eds., pp. 203-207, Academic Press (1981)
1	BP	Hastings *et al.*, The Red Absorbing Flavin Species in the Reaction of Bacterial Luciferase with $FMNH_2$ and O_2^1, Bioluminescence and Chemiluminescence pp. 403-408 (1981).
1	BQ	Hastings *et al.*, Fluorescence Properties of Luciferase Peroxyflavins Prepared with ISO-FMN and 2-THIO FMN^1, Bioluminescence and Chemiluminescence pp. 97-102 (1981).
1	BR	Hastings, Bioluminescence, in Cell Physiol.: Source Book, Sperelakis, ed., pp. 665-681, Academic Press (1995)
1	BS	Hill *et al.*, Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications, DeLuca *et al.*, eds., pp. 396-399, Academic Press (1981)
1	BT	Hori *et al.*, Structure of native *Renilla reniformis* luciferin, Proc. Natl. Acad. Sci. USA 74: 4285-4287 (1977).
1	BU	Illarionov *et al.*, Sequence of the cDNA encoding the Ca^{2+}-activated photoprotein obelin from the hydroid poly *Obelia longissima*, Gene 153:273-274 (1995)
1	BV	Inouye *et al.*, "Overexpression and purification of the recombinant Ca^{2+}—binding protein, apoaequorin," J. Biochem. 105(3):473-477 (1989).
1	BW	Inouye *et al.*, Cloning and sequence analysis of cDNA for the luminescent protein aequorin, Proc. Natl. Acad. Sci. USA 82:3154-3158 (1985).
1	BX	Inouye *et al.*, Squid bioluminescence II. Isolation from Watasenia scintillans and synthesis of 2-(p-hydroxybenzyl)-6-(p-hydroxyphenyl)-3,7-dihydroimidazo[1,2-a]pyrazin-3-one, Jap. Soc. Chem. Lett. pp. 141-144 (1975).
1	BY	Inouye *et al.*, Expression of Apoaequorin Complementary DNA in *Escherichia coli*, Biochemistry 25:8425-8429 (1986).
1	BZ	Johnson *et al.*, Introduction to the *Cypridina* system, Methods in Enzymology. Bioluminescence and Chemiluminescence. 57:331-349 (1978).
1	CA	Johnson, Luminescence, Narcosis, and Life in the Deep Sea, pp. 50-56, Vantage Press
1 SWL	CB	Johnson *et al.*, "Compartmentalization of algal bioluminescence: autofluorescence of bioluminescent particles in the dinoflagellate Gonyoulax as studied with image-intensified video microscopy and flow cytometry", J. Cell. Biol. 100(5):1435-1446 (1985)

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1 SWL		CC	Karatani *et al.*, A blue fluorescent protein from a yellow-emitting luminous bacterium, Photochem. Photobiol. 55(2): 293-299 (1992)
1		CD	Kohama *et al.*, Molecular weight of the photoprotein aequorin, Biochemistry 10: 4149-4152 (1971)
1		CE	Kurose *et al.*, Bioluminescence of the Ca^{2+}-binding photoprotein aequorin after cysteine modification, Proc. Natl. Acad. Sci. USA 86(1): 80-84 (1989)
1		CF	Lee *et al.*, "Purification of a Blue-fluorescent Protein from the Bioluminescent Bacterium *Photobacterium phosphoreum*," *Methods Enzymol.*, (Biolumin. Chemilumin.), 57:226-234 (1978)
1		CG	Lorenz *et al.*, Isolation and expression of a cDNA encoding *Renilla reniformis* luciferase, Proc. Natl. Acad. Sci. USA 88: 4438-4442 (1991)
1		CH	Matthews *et al.*, Purification and properties of *Renilla reniformis* luciferase, Biochemistry, 16: 85-91 (1977)
1		CI	Matz *et al.*, "Fluorescent proteins from nonbioluminescent Anthozoa species", *Nature Biotechnol.*, 17:969-973; (1999)
1		CJ	McElroy *et al.*, The colors of bioluminescence: Role of enzyme and substrate structure, in Molecular Architecture in Cell Physiology, pp. 63-80, Hayashi *et al.*, eds., Prentice-Hall, Inc., Englewood Cliffs, NJ (1966)
1		CK	Miyamoto *et al.*, Cloning and expression of the genes from the bioluminescent system of marine bacteria, Meth. Enzymol. 133:70-81 (1986)
1		CL	Morise *et al.*, Intermolecular Energy Transfer in the Bioluminescent System of Aequorea Biochemistry 13:2656-2662 (1974)
1		CM	Ormo *et al.* Crystal Structure of the Aequorea victoria Green Fluorescent Protein Science 273:1392-1395 (1996)
1		CN	Prasher *et al.*, Cloning and expression of the cDNA coding for aequorin, a bioluminescent calcium-binding protein, Biochem. Biophys. Res. Commun. 126(3):1259-1268 (1985)
1		CO	Prasher *et al.*, Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications, DeLuca *et al.*, eds., pp. 365-367, Academic Press (1981)
1		CP	Prasher *et al.*, Isolation and expression of a cDNA coding for aequorin, the Ca^{2+}—activated photoprotein from *Aequorea victoria*, Meth. Enzymol. 133:288-297 (1986)
1		CQ	Prasher *et al.*, Sequence comparisons of complementary DNAs encoding aequorin isotypes, Biochem. 26:1326-1332 (1987)
1		CR	Prasher *et al.*, Primary structure of the *Aequorea victoria* green-fluorescent protein, Gene 111:229-233 (1992)
1		CS	Prendergast *et al.*, "Chemical and Physical Properties of Aequorin and the Green Fluorescent Protein Isolated from *Aequorea forskålea*", *Biochem.*, 17: 3448-3453; (1978)
1		CT	Sandalova, Some notions about structure of bacterial luciferase, obtained by analysis of amino acid sequence, and study of monoclonal antibodies binding, In *Biological Luminescence, Proceedings of International School*, 1st, ed., Jezowska-Trzebiatowska *et al.*, World Science (1990)
1		CU	SeaLite Sciences Technical Report No. 3, "The Recombinant Photoprotein, AquaLite™", SeaLite Sciences, Inc., pages 1-6; (1994)
1		CV	Sherf *et al.*, Dual-luciferase reporter assay: an advanced co-reporter technology integrating firefly and *Renilla* luciferase assays, *Promega Notes* 57:2-5 (1996)
1		CW	Shimomura *et al.*, Semi-synthetic aequorin. An improved tool for the measurement of calcium ion concentration, Biochem. J. 251(2): 405-10 (1988)
1 SWL		CX	Shimomura *et al.* Structure of Light-Emitting Moiety of Aequorin Biochemistry 11:1602-1608 (1972)

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1 SwL		CY	Shimomura *et al.*, Recombinant aequorin and recombinant semi-synthetic aequorins. Cellular Ca^{2+} ion indicators, Biochem. J. 270(2): 309-12 (1990)
1		CZ	Shimomura *et al.* The Structure of *Latia* Luciferin Biochemistry 7:1734-1738 (1968)
1		DA	Shimomura, Structure of the Chromophore of Aequorea Green Fluorescent Protein FEBS Letters 104:220-222 (1979)
1		DB	Shimomura *et al.*, Extraction, purification and properties of a aequorin, a bioluminescent protein from the luminous hydromedusan, *Aequorea*, J. Cell. Comp. Physiol. 59: 223-238 (1962)
1		DC	Shimomura *et al.*, Properties and reaction mechanism of the bioluminescence system of the deep-sea shrimp Oplophorus gracilorostris, Biochem 17(6): 994-998 (1978)
1		DD	Shimomura *et al.*, Properties of the bioluminescent protein aequorin, Biochemistry 8: 3991-3997 (1969)
1		DE	Shimomura *et al.* Reactions Involved in Bioluminescence of Limpet (*Latia neritoides)* and Luminous Bacteria Proc. Natl. Acad. Sci. U.S.A. 69:2086-2089 (1972)
1		DF	Spurlok *et al.*, A fine structure study of the anthocodium in Renilla mulleri, *J. of Cell Biology* 64:15-28 (1975)
1		DG	Thompson *et al.*, Cloning and expression of cDNA for th eluciferase from the marine ostracod *Vargula hilgendorfi xi*, Proc. Natl. Acad. Sci. USA 86: 6567-6571 (1989)
1		DH	Tsien, The Green Fluorescent Protein Annu. Rev. Biochem. 67:509-544 (1998)
1		DI	Tsuji *et al.*, Some properties of luciferase from the bioluminescent crustacean, *Cypridina hilgendorfii*, Biochem. 13(25):5204-5209 (1974)
1		DJ	Tsuji, "*Cypridina* luciferin and luciferase", *Meth. Enzymol.* 57:364-372; (1978)
1		DK	Tsuji *et al.*, Site-specific mutagenesis of the calcium-binding photoprotein aequorin, Proc. Natl. Acad. Sci. USA 83:8107-8111 (1986)
1		DL	Wampler *et al.* Similarities in the Bioluminescence from the Pennatulacea Biochimicia et Biophysica Acta 314:104-109 (1973).
1		DM	Ward *et al.*, Energy Transfer Via Protein-Protein Interaction in *Renilla* Bioluminescence, Photochemistry and Photobiology 27:389-396 (1978).
1		DN	Ward *et al.*, Sequence and Chemical Structure of the Hexapeptide Chromophore of Aequorea Green-Fluorescent Protein, Photochemistry and Photobiology 49:62S (1989)
1 SwL		DO	Ward *et al.*, Extraction of *Renilla*-type luciferin from the calcium-activated photoproteins aequorin, mnemiopsin, and berovin, Proc. Natl. Acad. Sci. USA 72: 2530-2534 (1975)

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2) Art that concerns uses of GFP, or Luciferase.

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2 SWL	DP	4 8 6 1 7 O 9	8/29/89	Ulitzur *et al.*	435	6	5/31/85
2	DQ	5 1 9 6 3 1 8	3/23/93	Baldwin *et al.*	435	69.1	06/26/90
2	DR	5 2 2 1 6 2 3	6/22/93	Legocki *et al.*	435	252.3	7/19/89
2	DS	5 2 4 6 8 3 4	9/21/93	Tsuji *et al.*	435	7.91	2/19/92
2	DT	5 4 9 1 0 8 4	02/13/96	Chalfie *et al.*	435	189	09/10/93
2	DU	5 7 7 6 6 8 1	07/07/98	Virta *et al.*	435	6	09/15/95
2	DV	5 8 9 1 6 4 6	04/06/99	Barak *et al.*	435	7,2	06/05/97
2 SWL	DW	5 9 1 2 1 3 7	06/15/99	Tsien *et al.*	435	15	07/16/96

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2 SWL	DX	0 2 4 5 0 9 3	11/11/87	EP A1				
2	DY	0 2 4 5 0 9 3	11/11/87	EP B1				
2	DZ	0 3 8 6 6 9 1	9/12/90	EP A3	C12Q 1	68		
2	EA	2 2 8 8 2 3 2	10/11/95	UK				
2	EB	3 9 3 5 9 7 4	5/2/91	DE A1			X*	
2	EC	5 0 6 4 5 8 3	3/19/93	JP				X*
2	ED	9 6 0 7 1 0 0	03/07/96	PCT				
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2	EF	9 7 2 8 2 6 1	08/07/97	PCT				
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2	EH	9 8 0 2 5 7 1	01/22/98	PCT				
2	EI	9 8 1 4 6 0 5	04/09/98	PCT				
2 SWL	EJ	9 8 2 6 2 7 7	6/18/98	PCT	G01N	21/76		

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2	EL	Amsterdam, *et al.* The Aequorea victoria Green Fluorescent Protein Can Be Used as a Reporter in Live Zebrafish Embryos Developmental Biology 171:123-129 (1995)
2	EM	Anctil *et al.*, Mechanism of photoinactivation and re-activatioon in the bioluminescence system of the ctenophore Mnemiopsis, Biochem. J. 22(1): 269-272 (1984)
2	EN	Badminton *et al.*, nucleoplasmin-targeted aequorin provides evidence for a nuclear calcium barrier, Expt. Cell Research 216(1): 236-243 (1995)
2	EO	Baldwin *et al.*, "Applications of the cloned bacterial luciferase genes *LUX*A and *LUX*B to the study of transcriptional promoters and terminators," Bioluminescence and Chemiluminescence: Basic Chemistry and Analytical Applications, DeLuca and McElroy, Eds., Academic Press (1981)
2 SWL	EP	Becvar *et al.*, A thermodymanic explanation for the kinetic differences observed using different

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SWL			chain length aldehydes in the *in vitro* bacterial bioluminescent reaction, in Bioluminescence and Chemiluminescence, pp. 147-55, 180-85, Proc. of the IV Int. Bioluminescence and Chemiluminescence Symp., Freiburg, September 1986
2	SWL	EQ	Button *et al.*, Aequorin-expressing mammalian cell lines used to report Ca^{2+} mobilization, Cell Calcium 14(9):663-671 (1993)
2		ER	Chalfie *et al.* Green Fluorescent Protein as a marker for Gene Expression Science 263: 802-805 (1994)
2		ES	Charbonneau et al. Ca^{2+}-induced Bioluminescence in *Renilla reniformis* Purification and Characterization of a Calcium-Triggered Luciferin-Binding Protein J. Biol. Chem. 254:769-780 (1979)
2		ET	Cody *et al.* Chemical Structure of the Hexapeptide Chromophore of the Aequorea Green-Fluorescent Protein Biochemistry 32:1212-1218 (1993)
2		EU	Cormack *et al.* Yeast-enhanced green fluorescent protein (yEGFP): a reporter of gene expression in Candida albicans Microbiology 143:303-311 (1997)
2		EV	Cormier *et al.*, Evidence for similar biochemical requirements for bioluminescene among the coelenterates, J. Cell Physiol. 81: 291-298 (1972)
2		EW	Cormier "Renilla and Aequorea bioluminescence" pp 225-233 in Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications. DeLuca et al eds, Academic Press 1981.
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2		FB	Giuliano *et al.* Fluorescent-protein biosensors: new tools for drug discovery TiBech 16: 135-140 (1998)
2		FC	Grentzmann *et al.*, A dual-luciferase system for studying recoding signals, *RNA* 479-486 (1998)
2		FD	Hart *et al.* "*Renilla reniformis* bioluminescence: Luciferase-catalyzed production of nonradiating excited states from luciferin analogues and elucidation of the excited state species involoved in energy transfer to *Renilla* green fluorescent protein", (1979) Biochemistry 18:2204-2210 (1979)
2		FE	Heim *et al.*, Engineering green fluorescent protein for improved brightness, longer wavelengths and fluorescence resonance energy transfer, *Current Biology* 6(2):178-182 (1996)
2		FF	Heinlein *et al.* Interaction of Tobamovirus Movement Proteins with the Plant Cytoskeleton Science 270:1983-1985 (1995)
2		FG	Hori *et al.*, *Renilla* luciferin as the substrate for calcium induced photoprotein bioluminescence. Assignment of luciferin plutomers in aequorin and mnemiopsin, Biochemistry 14: 2371-2376, (1975).
2		FH	Ikawa *et al.* A rapid and non -invasive selection of transgenic embryos before implantation using green fluorescent protein (GFP) FEBS Letters 375:125-128 (1995)
2		FI	Inouye *et al.*, Electroporation as a new technique for producing transgenic fish, Cell Differ. Devel. 29:123-128 (1990)
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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	APPLICANT BRYAN *et al.*	
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SEP 13 2004 — PATENT & TRADEMARK OFFICE — SC116

		apoaequorin, Analyt. Biochem. 201(1): 114-118 (1992)
2 SWL	FK	Inouye *et al.*, "Imaging of luciferase secretion from transformed Chinese hamster ovary cells," Proc. Natl. Acad. Sci. USA 89:9584-9587 (1992)
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2	FU	Miller *et al.* An improved GFP cloning cassette designed for prokaryotic transcriptional fusions Gene 191:149-153 (1997)
2	FV	Mitra *et al.*, Fluorescence resonance energy tranfer between blue-emitting and red-shifted excitation derivatives of the green fluorescent protein, *Gene* 73(1):13-17 (1996)
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2	GB	Rizzuto *et al.* , Rapid changes of mitochondrial Ca^{2+} revealed by specifically targeted recombinant aequorin, Nature 358(6384): 325-327 (1992)
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2 SWL	GF	Sedlak *et al.*, Bioluminescent Technology for Reagents, Diagnostics and Toxicology," Genetic

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SwL		Engineering News, September 15, 1995
2 SwL	GG	Sgoutas *et al.*, AquaLite® bioluminescence assay of thyrotropin in serum evaluated, Clin. Chem. 41(11):1637-1643 (1995)
2	GH	Sheu *et al.*, Measurement of intracellular calcium using bioluminescent aequorin exposed in human cells, Analyt. Biochem. 209(2): 343-347 (1993)
2	GI	Straight *et al.* GFP tagging of budding yeast chromosomes reveals that protein-protein interations can mediate sister chromatid cohesion Current Biology 12:1599-1608 (1996)
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	APPLICANT BRYAN *et al.*	
	FILING DATE March 15, 2001	GROUP 1642

SEP 13 2004 — PATENT & TRADEMARK OFFICE

3) Art that concerns items/procedures that use chemi- or bio-luminescence.

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
3 SwL	GO	3	5	1	1	6	1	2	05/12/70	Kennerly *et al.*	23	252	03/20/67
3	GP	3	5	6	5	8	1	5	2/23/71	Christy	252	301.3	12/28/67
3	GQ	3	6	6	9	8	9	1	6/13/72	Greenwood *et al.*	252	90	5/27/70
3	GR	4	3	1	3	8	4	3	2/2/82	Bollyky *et al.*	252	188.3	9/9/76
3	GS	4	4	7	8	8	1	7	10/23/84	Campbell *et la.*	424	7.1	11/14/78
3	GT	4	5	3	4	3	1	7	08/13/85	Walsh	119	51 R	08/30/84
3	GU	4	7	1	4	6	8	2	12/22/87	Schwartz	436	10	04/03/87
3	GV	4	7	6	7	2	0	6	8/30/88	Schwartz	356	73	12/24/84
3	GW	4	7	7	4	1	8	9	9/27/88	Schwartz	436	10	12/11/85
3	GX	4	7	7	7	1	2	8	10/11/88	Lippa	435	5	05/27/86
3	GY	4	8	5	3	3	2	7	8/1/89	Dattagupta	435	6	7/10/85
3	GZ	4	8	6	7	9	0	8	9/19/89	Recktenwald *et al.*	252	408.1	6/4/87
3	HA	4	9	5	O	5	8	8	8/21/90	Dattagupta	435	6	09/27/88
3	HB	5	0	0	4	5	6	5	4/02/91	Schaap	252	700	07/27/88
3	HC	5	1	8	9	0	2	9	02/23/93	Boyer *et al.*	514	64	04/23/90
3	HD	5	2	7	9	9	4	3	1/18/94	Mathis *et al.*	435	7.32	01/19/93
3	HE	5	3	7	4	5	3	4	12/20/94	Zomer *et al.*	435	8	5/14/93
3	HF	5	4	2	2	0	7	5	06/06/95	Saito *et al.*	422	52	05/27/93
3	HG	5	4	2	4	2	1	6	6/13/95	Nagano *et al.*	436	116	8/16/93
3	HH	5	4	3	3	8	9	6	07/18/95	Kang *et al.*	252	700	05/20/94
3	HI	5	4	3	5	9	3	7	7/25/95	Bell *et al.*	252	301.18	02/12/93
3	HJ	5	4	3	9	7	9	7	08/08/95	Tsien *et al.*	435	7.21	08/30/93
3	HK	5	4	5	1	3	4	7	9/19/95	Akhavan-Tafti *et al.*	252	700	6/24/93
3	HL	5	4	8	4	7	2	3	01/16/96	Zenno *et al.*	435	189	06/28/94
3	HM	5	4	8	6	4	5	5	01/23/96	Stults	435	6	08/22/94
3 SwL	HN	5	7	1	9	0	4	4	02/17/98	Shoseyov *et al.*	435	69.7	02/17/98

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes	Translation No
3 SwL	HO	0	0	2	5	3	5	0	09/05/80	EP A2				
3	HP	0	1	9	4	1	0	2	10/23/91	EP B1				
3	HQ	0	2	4	6	1	7	4	11/19/87	EP A1				
3	HR	0	7	1	3	0	8	9	05/22/96	EP A2			X*	
3	HS	2	2	9	2	5	9	5	6/25/76	FR				
3 SwL	HT	9	2	0	1	2	2	5	01/23/92	PCT			X*	

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	APPLICANT BRYAN et al.	
	FILING DATE March 15, 2001	GROUP 1642

SEP 13 2004 U.S. PATENT AND TRADEMARK OFFICE

3 SWL	HU	9	2	0	4	5	7	7	03/19/92	PCT				X*
3 SWL	HV	9	4	1	8	3	4	2	8/18/94	PCT				
3 SWL	HW	9	9	6	6	3	2	4	12/23/99	PCT				

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
3 SWL	HX	Amato, Race quickens for non-stick blood monitoring technology, Science 258:892-893 (1992)
3	HY	Apt *et al.*, Evolution of phycobiliproteins, J. Mol. Biol. 248: 79-96 (1995)
3	HZ	Baird *et al.*, "Biochemistry, mutagenesis, and oligomerization of DsRed, a red fluorescent protein form coral", *PNAS*, 97(22):11984-11989; (2000)
3	IA	Bondar *et al.*, Cadmium-induced luminescence of recombinant photoprotein obelin, Biochim. Biophys. Acta 1231: 29-32 (1995)
3	IB	Campbell *et al.*, Formation of the Ca^{2+}-activated photoprotein obelin from apo-obelin and mRNA inside human neutrophils, Biochem. J. 252(1):143-9 (1988)
3	IC	Cardullo *et al.* Detection of nucleic acid hybridization by nonradiative fluorescence resonance energy transfer Pro.Natl. Acad. Sci. USA 85:8790-9794 (1988)
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3	IE	Database Derwent #008987167 (citing WO 9204577, Chemiluminescence prodn. in liq.-contg. vesssel - by placing reagent envelope in liq. or vessel base)
3	IF	Fairchild *et al.*, Oligomeric Structure, Enzyme Kinetics, and Substrate Specificity of the Phycocyanin _ Subunit Phycocyanobilin Lyase, The Journal of Biological Chemistry 269(12): 8686-8694 (1994).
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3	IH	Goldmacher *et al.*, "Photoactivation of Toxin Conjugates", *Bioconj. Chem.*, 3:104-107; (1992)
3	II	Gautier *et al.*, Alternate determination of ATP and NADH with a single bioluminescence-based fiber-optic sensor, Fifth International Conference on Solid State Sensors and Actuators and Eurosensors III, Montreux, Switzerland, 25-30 June 1989
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3	IK	Glazer, Phycobilisomes: structure and dynamics, Ann. Rev. Microbiol. 36: 173-98 (1982).
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3	IM	Hart *et al.*, *Renilla reniformis* Bioluminescence: Luciferase-Catalyzed Production of Nonradiating Excited States from Luciferin Analogues and Elucidation of the Excited State Species Involved in Energy Transfer to *Renilla* Green Fluorescent Protein, Biochemistry 18(11):2204-2210 (1979).
3	IN	Houmard *et al.*, Genes encoding core components of the phycobilisome in cyanobacterium *Calothrix* sp. srain PCC 7601: occurrence of a multigene family, J. Bacteriol. 170(12): 5512-5521 (1988)
3	IO	Illarionov *et al.*, "Sequence of the cDNA encoding the Ca^{2+}-activated photoprotein obelin from the hydroid polyp *Obelia longissima*", *Gene*, 153:273-274; (1995)
3	IP	Johnson, F.H., Luminescence, Narcosis, and Life in the Deep Sea, Vantage Press, NY pp. 50-56 (1988)
3	IQ	Kronick, The use of phycobiliproteins as flkuorescent labels in immunoassay, J. Immunolog. Meth. 92: 1-13 (1986)
3 SWL	IR	Liu *et al.*, A cyanidium caldarium Allophycocyanin _ subunit gene, Plant Physiol. 103:293-294

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3		IT	Morin *et al.*, "Energy Transfer in _ Bioluminescent System", *J. Cell Physiol.*, 77:313-318; (1971)
3		IU	Müller and Campbell, "The chromophore of pholasin: A highly luminescent protein", J. Biolumin. Chemilum. 5:25-30 (1990)
3		IV	Nicoli *et al.*, Bacterial luciferase: The hydrophobic environment of the reactive sulfhydryl, J. Biol. Chem. 249: 2393-2396 (1974)
3		IW	O'Day *et al.*, *Aristostomias scintillans (Malacostiedae)*: a deep sea fish with visual pigments apparently adapted to its own bioluminescence, Vision Res. 14:545-550 (1974)
3		IX	Peerce *et al.* Distance between substrate sites on the Na-glucose cotransporter by fluoresence energy transfer Proc. Natl. Acad. Sci. USA 83:8092-8096 (1986)
3		IY	Pilot *et al.*, Cloning and sequencing of the genes encoding the _ and _ subunits of C-phycocyanin from the cyanobacterium *Agmenellum quadruplicatum*, Proc. Natl. Acad. Sci. USA 81: 6983-6987 (1984)
3		IZ	Senter *et al.*, "Novel Photocleavable Protein Crosslinking Reagents and their Use in the Preparation of Antibody-toxin Conjugates", *Photochem. & Photobiol.*, 42(3):231-237; (1985)
3		JA	Shimomura *et al.*, Resistivity to denaturation of the apoprotein of aequorin and reconstitution of the luminescent photoprotein from the partially denatured apoprotein, Biochem J. 199:825-828 (1981)
3		JB	Shimomura *et al.*, Regeneration of the photoprotein aequorin, Nature 256: 236-238 (1975)
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3		JG	Smalley *et al.*, "Localization of fluorescent compounds in the firefly light organ", J. Histochem. Cytochem. 28(4):323-329 (1980)
3		JH	Smith *et al.*, Bioluminescent immunoassays using streptavidin and biotin conjugates of recombinant aequorin, reprinted from American Biotechnology Laboratory, April 1995
3		JI	Stability of AquaLite®: lyophilized and in solution, SeaLite Sciences Technical Report No. 8 (1994)
3		JJ	Stephenson *et al.* Studies on the Luminescent Response of the Ca^{2+}-Activated Photoprotein, Obelin Biochimica et Biophysica Acta 678:65-75 (1981)
3		JK	Tsuji *et al.*, Mechanism of the enzyme-catalyzed oxidation of *Cypridina* and firefly luciferins studied by means of $^{17}O_2$ and $H_2{}^{18}O^1$, Biochem. Biophys.Res. Commun. 74(2):606-613 (1977)
3		JL	Vysotski *et al.*, Mn^{2+}-activated luminescence of the photoprotein obelin, Arch. Bioch. Biophys. 316:92-99 (1995)
3		JM	Vysotski *et al.*, Luminescence of Ca^{2+}-activated photoprotein obelin initiated by NaOCl and $MnCl_2$, J. Biolumin. Chemilumin. 8:301-305 (1993)
3		JN	Wall *et al.*, "The structural basis for red fluorescence in the tetrameric GFP homolog DsRed", *Nature Structural Biol.*, 7(12):1133-1138; (2000)
3	SWL	JO	Ward *et al.* Reversible Denaturation of the Aequorea Green-Fluorescent Protein: Physicial

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	FILING DATE March 15, 2001	GROUP 1642

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3	SwL	JP	Ward, Properties of the Coelenterate Green-Fluorescent Proteins Bioluminescence and Chemiluminescence 235-242 (1981)
3		JQ	Ward, General Aspects of Bioluminescence, in Chemi- and Bioluminescence, Ch. 7, Burr, ed., Marcel Dekker, Inc., New York
3		JR	Ward *et al.* Energy Transfer Via Protein-Protein Interation in Renilla Bioluminescence Photochemistry and Photobiology 27:389-396 (1978)
3		JS	Ward, Energy Transfer Processes in Bioluminescence Photochem. Photobiol. Rev. 4:1-57
3		JT	Ward *et al.*, An energy transfer protein in coelenterate bioluminescence, J. Biol. Chem. 254: 781-788 (1979)
3		JU	Ward *et al.* In Vitro Energy Transfer in Renilla Bioluminescence The Journal of Physical Chemistry 8:2289-2291 (1976)
3		JV	Watanabe *et al.*, Bunding of murine monoclonal antibodies to the active and inactive configurations of aequorin, FEBS Lett. 246(1-2): 73-77 (1989)
3		JW	Watkins *et al.*, Requirement of the C-terminal proline residue for stability of the $Ca^{(2+)}$-activated photoprotein aequorin, Biochem. J. 293(Pt.1): 181-185 (1993)
3		JX	Welches *et al.*, Active center studies on bacterial luciferase: Modification of the enzyme with 2,4-dinitrofluorobenzene, Biochemistry 20: 512-517 (1981)
3		JY	Widder *et al.*, "Far red bioluminescence from two deep-sea fishes", Science 225:512-514 (1984)
3		JZ	Wienhausen *et al.*, Luciferases from different species of fireflies are antigenically similar, Photochem. Photobiol. 42: 609-611 (1985)
3		KA	Yarbrough *et al.*, "Refined crystal structure of DsRed, a red fluorescent protein from coral, at 2.0-Å resolution", *PNAS*, 98(2):462-467; (2001)
3		KB	Yen *et al.*, "Synthesis of water-soluble copolymers containing photocleavable bonds", *Makromol. Chem.*, 190:69-82; (1989)
3	SwL	KC	Ziegler *et al.*, Active center studies on bacterial luciferase: Locations of the protease labile regions and the reactive cysteinyl residue in the primary structure of the _ subunit, Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications, DeLuca *et al.*, eds., pp. 376-377, Academic Press (1981)

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	FILING DATE March 15, 2001	GROUP 1642

4) Art that concerns novelty items which use chemi- or bioluminescence.

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
4 SWL	KD	3 5 8 4 2 1 1	6/8/71	Rauhut	240	2.25	10/7/68
4	KE	3 6 3 4 2 8 0	1/11/72	Dean *et al.*	252	301.3 R	12/31/68
4	KF	3 6 6 1 7 9 0	5/9/72	Dean *et al.*	252	301.3 R	1/31/68
4	KG	4 5 6 3 7 2 6	1/7/86	Newcomb *et al.*	362	34	8/20/84
4	KH	4 7 1 7 1 5 8	1/5/88	Pennisi	273	58A	6/26/86
4	KI	4 7 8 1 6 4 7	11/1/88	Doane, Jr.	446	219	5/4/87
4	KJ	4 9 2 4 3 5 8	5/8/90	Von Heck	362	32	9/12/88
4	KK	4 9 6 3 1 1 7	10/16/90	Gualdoni	446	219	10/30/89
4	KL	5 1 5 8 3 4 9	10/27/92	Holland *et al.*	362	34	07/03/91
4	KM	5 1 7 1 0 8 1	12/15/92	Pita *et al.*	362	34	5/29/92
4	KN	5 2 2 2 7 9 7	6/29/93	Holland	362	34	10/31/91
4	KO	5 3 2 3 4 9 2	6/28/94	DeMars	2	203.13	11/6/92
4	KP	5 3 8 3 1 0 0	01/17/95	Kikos	362	34	08/02/91
4	KQ	5 4 1 3 3 3 2	5/09/95	Montgomery	273	58	05/26/94
4	KR	5 4 1 5 1 5 1	5/16/95	Fusi *et al.*	124	56	9/20/93
4	KS	5 6 7 1 9 9 8	09/30/97	Collet	362	101	08/30/91
4	KT	5 7 3 0 3 2 1	03/24/98	McAllister *et al.*	222	1	12/13/95
4	KU	5 8 7 6 9 9 5	3/2/99	Bryan	435	189	11/25/96
4	KV	6 1 1 3 8 8 6	09/05/00	Bryan	424	49	11/22/99
4 SWL	KW	6 1 5 2 3 5 8	11/28/00	Bryan	229	87.19	08/17/98

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes	Translation No
4 SWL	KX	9 7 2 9 3 1 9	08/14/97	PCT				

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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		
	APPLICANT BRYAN *et al.*	
	FILING DATE March 15, 2001	GROUP 1642

5) Art that concerns items/procedures that do not use chemi- or bioluminescence

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
5 SWL	KY	2 5 4 1 8 5 1	2/13/51	Wright	260	37	12/23/44
5	KZ	3 6 4 9 0 2 9	03/14/72	Worrell	273	186	07/09/69
5	LA	3 7 2 7 2 3 6	04/17/73	Lloyd *et al.*	2	51	06/15/71
5	LB	3 3 8 4 4 9 8	5/21/68	Ahrabi	106	38.5	1/4/67
5	LC	3 8 7 3 4 8 5	3/25/75	Fichera	260	29.2	4/3/74
5	LD	4 0 2 1 3 6 4	5/03/77	Speiser	252	316	12/04/73
5	LE	4 0 4 4 1 2 6	08/23/77	Cook *et al.*	424	243	07/09/76
5	LF	4 1 7 5 1 8 3	11/20/79	Ayers	536	57	05/24/78
5	LG	4 1 7 7 0 3 8	12/04/79	Biebricher *et al.*	8	192	05/17/77
5	LH	4 2 2 5 5 8 1	9/30/80	Kreuter *et al.*	424	88	8/07/78
5	LI	4 2 2 9 7 9 0	11/21/80	Gilliland *et al.*	364	200	10/16/78
5	LJ	4 2 6 9 8 2 1	5/26/81	Kreuter	424	19	05/02/80
5	LK	4 2 8 1 6 4 5	08/04/81	Jöbsis	128	633	06/28/77
5	LM	4 2 8 2 2 8 7	8/4/81	Giese	428	407	01/24/80
5	LN	4 3 2 4 6 8 3	4/13/82	Lim *et al.*	252	316	08/20/75
5	LO	4 3 6 4 9 2 3	12/21/82	Cook *et al.*	424	46	04/30/81
5	LP	4 4 1 4 2 0 9	11/08/83	Cook *et al.*	424	243	06/13/77
5	LQ	4 5 2 8 1 8 0	7/09/85	Schaeffer	424	52	03/01/83
5	LR	4 5 4 2 1 0 2	9/17/85	Dattagupta *et al.*	435	6	07/05/83
5	LS	4 5 6 2 1 5 7	12/31/85	Lowe *et al.*	435	291	05/25/84
5	LT	4 6 7 6 4 O 6	6/30/87	Frischmann *et al.*	222	136	9/29/86
5	LU	4 6 8 1 8 7 0	7/21/87	Balint *et al.*	502	403	01/11/85
5	LV	4 7 3 5 6 6 0	4/5/88	Cane	106	203	6/26/87
5	LW	4 7 4 5 0 5 1	05/17/88	Smith *et al.*	435	68	05/27/83
5	LX	4 7 6 2 8 8 1	8/09/88	Kauer	525	54.11	01/09/87
5	LY	4 7 6 5 5 1 O	8/23/88	Rende	222	79	4/7/87
5	LZ	4 7 8 9 6 3 3	12/06/88	Huang	435	240.2	04/19/84
5	MA	4 8 7 0 0 0 9	09/26/89	Evans *et al.*	435	70	12/15/83
5	MB	4 8 8 2 1 6 5	11/21/89	Hunt *et al.*	424	450	11/05/86
5	MC	4 8 9 1 0 4 3	1/02/90	Zeimer *et al.*	604	20	05/28/87
5	MD	4 9 0 8 4 0 5	3/13/90	Bayer *et al.*	525	61	01/02/86
5	ME	4 9 2 1 7 5 7	5/01/90	Wheatley *et al.*	428	402.2	09/03/87
5	MF	4 9 2 7 9 2 3	05/22/90	Mathis *et al.*	540	456	09/20/85
5	MG	4 9 5 2 4 9 6	08/28/90	Studier *et al.*	435	91	12/29/86
5	MH	5 0 2 3 1 8 1	6/11/91	Inouye	435	189	7/13/88
5	MI	5 0 9 6 8 0 7	3/17/92	Leaback	435	6	3/17/92
5 SWL	MJ	5 1 2 8 2 5 6	07/07/92	Huse *et al.*	435	172.3	04/20/89
5	MK	5 1 6 2 5 0 8	11/10/92	Lehn *et al.*	401	04	06/26/91

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	FILING DATE March 15, 2001	GROUP 1642

5 SwL	ML	5	1	6	9	7	8	4	12/08/92	Summers *et al.*	435	320.1	09/17/90
5	MN	5	2	1	5	8	9	9	06/01/93	Dattagupta	435	6	08/23/90
5	MO	5	2	4	3	0	4	1	09/07/93	Fernandez-Pol	536	23.5	08/22/91
5	MP	5	2	6	6	3	1	7	11/30/93	Tomalski *et al.*	424	93 T	10/04/90
5	MQ	5	2	6	8	4	6	3	12/7/93	Jefferson	536	23.7	12/8/89
5	MR	5	2	7	7	9	1	3	1/11/94	Thompson *et al.*	424	450	09/09/91
5	MS	5	2	8	8	6	2	3	02/22/94	Zenno *et al.*	435	69.7	07/13/92
5	MT	5	3	1	0	4	2	1	5/10/94	Shapero *et al.*	106	208	2/7/92
5	MU	5	3	3	7	7	4	5	08/16/94	Benaron	128	633	11/12/93
5	MV	5	3	6	0	7	2	6	11/01/94	Raikhel	435	172.3	11/12/91
5	MW	5	3	6	2	8	6	5	11/8/94	Austin	536	24.1	9//2/93
5	MX	5	3	6	4	7	9	7	11/15/94	Olson *et al.*	436	501	05/20/93
5	MY	5	3	6	6	8	8	1	11/22/94	Singh *et al.*	435	177	02/23/93
5	MZ	5	3	8	7	5	2	6	2/07/95	Garner *et al.*	436	169	09/11/91
5	NA	5	4	0	5	9	0	5	4/11/95	Darr	524	420	11/26/93
5	NB	5	4	0	5	9	5	8	4/11/95	VanGermert	544	71	12/21/92
5	NC	5	4	1	2	0	8	5	5/2/95	Allen *et al.*	536	24.1	11/09/93
5	ND	5	4	1	3	0	9	8	05/09/95	Benaron	128	633	12/22/92
5	NE	5	4	3	2	0	8	1	7/11/95	Jefferson	435	252.3	11/15/93
5	NF	5	4	5	5	3	5	7	10/03/95	Herrmann *et al.*	548	147	
5	NG	5	4	6	4	7	5	8	11/7/95	Gossen *et al.*	435	69.1	6/14/93
5	NH	5	4	9	6	9	3	4	03/05/96	Shoseyov *et al.*	536	23.7	04/14/93
5	NI	5	6	0	5	6	6	2	02/25/97	Heller *et al.*	422	68.1	11/01/93
5	NJ	5	6	2	4	7	1	1	04/29/97	Sundberg *et al.*	427	261	04/27/95
5	NK	5	6	3	2	9	5	7	05/27/97	Heller *et al.*	422	68.1	09/09/94
5	NL	5	6	7	0	6	2	3	09/23/97	Shoseyov *et al.*	530	350	06/02/95
5	NM	5	7	3	8	9	8	4	04/14/98	Shoseyov	435	4	06/02/95
5	NN	6	0	2	0	5	3	8	02/01/00	Han *et al.*	800	293	05/01/98
5 SwL	NO	6	2	3	2	1	0	7	05/15/01	Bryan *et al.*	435	189	03/26/99

FOREIGN PATENT DOCUMENTS

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5 SwL	NP	7	2	4	1	1	9	2	9/95	JP A			X*	
5	NQ	8	6	0	3	8	4	0	07/03/86	PCT				
5	NR	9	3	1	3	3	9	5	07/08/93	PCT				
5	NS	9	4	2	5	8	5	5	11/10/94	PCT				
5 SwL	NT	9	6	0	7	9	1	7	03/14/96	PCT				

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	APPLICANT BRYAN *et al.*	
	FILING DATE March 15, 2001	GROUP 1642

SEP 1 3 2004 PATENT & TRADEMARK OFFICE

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
5 Sub		NU	Altschul *et al.*, "Basic Local Alignment Search Tool"; *J. Mol. Biol.*, 215:403-410; (1990)
5		NV	Anderson, Radiolaria, Springer-Verlag, New York (1983)
5		NW	Aviv *et al.*, Purification of Biologically Active Globin Messenger RNA by Chromatography on Oligothymidylic acid-Cellulose, Proc. Natl. Acad. Sci. USA 69(6):1408-1412 (1972).
5		NX	Batra *et al.*, "Insertion of Constant Region Domains of Human IgG, into CD4-PE40 Increases Its Plasma Half-life", *Molecular Immunol.*, 30(4):379-386; (1993)
5		NY	Bayer and Wichek (1980) The Use of Avidin/Biotin Complex as a Tool in Molecular Biology. *Meth. Biochem. Anal.* 26, 1-45
5		NZ	Berg et al., Long-chain polystyrene-grafted polyethylene film matrix: a new support for solid-phase peptide synthesis, J. Am. Chem. Soc. 111: 8026-8027 (1989)
5		OA	Berg *et al.*, Peptide synthesis on polystyrene-grafted polyethylene sheets, Pept., Proc. Eur. Pept. Symp., 20th, Jung *et al.* (Eds.), pp. 196-198 (1989)
5		OB	Berg *et al.*, Polystyrene-grafted polyethylene: Design of film and felt matrices for solid-phase peptide synthesis, Innovation Perspect. Solid Phase Synth. Collect. Pap., Int. Symp., 1st, Epton (ed.), pp. 453-459 (1990)
5		OC	Biocomputing: Informatics and Genome Projects, Book: Smith, D.W., Ed., Academic Press, New York; (1993)
5		OD	Bodanszky and Bodanszky, The Practice of Peptide Synthesis, Springer-Verlag, New York, (1984)
5		OE	Bunnin *et al.* The combinatorial synthesis and chemical and biological evaluation of a 1,4-benzodiazepine library, Proc. Natl. Acad. Sci. USA, 91:4708-4712 (1994)
5		OF	Carlsson et al. Protein Thiolation and Reversible Protein-Protein Conjugation Biochem. J. 173: 723-737 (1978)
5		OG	Carrillo *et al.*, "The Multiple Sequence Alignment Problem in Biology", *SIAM J. Applied Math*, 48(5):1073-1082; (1988)
5		OH	Childress, "Oxygen minimum layer: Vertical distribution and respiration of the mysid gnathophausia ingens", Science 160:1242-1243 (1968)
5		OI	Chirgwin *et al.*, Isolation of Biologically Active Ribonucleic Acid from Sources Enriched in Ribonuclease, Biochemistry 18(24):5294-5299 (1979).
5		OJ	Computational Molecular Biology, Book: Lesk, A.M., ed., Oxford University Press, New York; (1988)
5		OK	Computer Analysis of Sequence Data, Book: Part I, Griffin, A.M., and Griffin, H.G., eds., Humana Press, New Jersey; (1994)
5		OL	Cumber *et al.*, "Structural Features of the Antibody-A Chain Linkage that Influence the Activity and Stability of Ricin A Chain Immunotoxins", 3(5):397-401; (1992)
5		OM	Devereux *et al.*, "A comprehensive set of sequence analysis programs for the VAX", *Nucl. Acids Res.*, 12(1):387-395; (1984)
5		ON	DeWitt *et al.*, Diversomers: an approach to nonpeptide, nonoligomeric chemical diversity, Proc. Natl. Acad. Sci. USA 90: 6909-6913 (1993)
5		OO	DeWitt *et al.*, DIVERSOMER™ Technology: solid phase synthesis, automation, and integration for the generation of chemical diversity," Drug Dev Res 33:116-124 (1994).
5		OP	DIALOG Abstract 002042687, citing: JP 7241192
5		OQ	Düzgunes *et al.*, Fusion of phospholipid vesicles induced by divalent cations and protons; modulation by phase trasitions, free fatty acids, monovalent cations, and polyamines, Cell Fusion, Ch. 11 Divalent Cations and Protons, Sowers, A.E. (ed.) pp. 241-267 (1984).
5 Sub		OR	Fattom *et al.*, "Comprehensive Immunogenicity of Conjugates Composed of the

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	FILING DATE March 15, 2001	GROUP 1642

SEP 13 2004 PATENT & TRADEMARK OFFICE

SwL		*Staphylococcus aureus* Type 8 Capsular Polysaccharide Bound to Carrier Proteins by Adipic Acid Dihydrazide or *N*-Succinimidyl-3-(2-Pyridyldithio)propionate", *Infection & Immun.*, 60(2):584-589; (1992)
5 SwL	OS	Goodchild, "Conjugates of oligonucleotides and modified oligonucleotides: A review of their synthesis and properties", Perspectives in Bioconjugate Chemistry, Mears, ed., American Chemical Society, Washington, D.C., Ch 6, pp. 77-99 (1993)
5	OT	Gordon *et al.* Topographical localization of the C-terminal region of the voltage-dependent sodium channel from *Electrophorus electricus* using antibodies raised against a synthetic peptide Proc. Natl. Acad Sci. 84:308-312 (1987)
5	OU	Gribskov *et al.*, "Sigma factors from *E. coli, B. subtilis*, phage SP01, and phage T4 are homologous proteins", *Nucl. Acids Res.*, 14(16):6745-6762; (1986)
5	OV	Guide to Human Genome Computing, Book: Martin J. Bishop, ed., Academic Press, San Diego; (1994)
5	OW	Guyomard *et al.*, Integration and germ line transmission of foreign genes microinjected into fertilized trout eggs, Biochimie 71:857-863 (1989)
5	OX	Hazum *et al.*, A photocleavable protecting group for the thiol function of cysteine, Pept., Proc. Eur. Pept. Symp., 16th, Brunfeldt, K (Ed), pp. 105-110 (1981)
5	OY	Hermanson *et al.*, Immobilized Affinity Ligand Techniques, Chaps. 1 and 2, Academic Press, Inc. (1992)
5	OZ	Immobilized Biochemicals and Affinity Chromatography, Advances in Experimental Medicine and Biology, vol. 42, ed. R. Dunlap, Plenum Press, N.Y. (1974) Table of Contents
5	PA	Immobilized Enzyme, Antigens, Antibodies and Peptides. Preparation and Characterization, Marcel Dekker, Inc., N.Y., Howard H. Weetall (ed.) (1975)
5	PB	Jellinek *et al.*, "Potent 2'-Amino-2'-deoxypyrimidine RNA Inhibitors of Basic Fibroblast Growth Factor", *Biochem.*, 34:11363-11372; (1995)
5	PC	Kennedy and Cabral, Immobilized Enzymes, in Solid Phase Biochemistry, Analytical and Synthetic Aspects, Scouten, Ed., 7:253-391 (1983)
5	PD	Kent *et al.*, Preparation and properties of tert-butyloxcarbonylaminocayl-4-(oxymethyl) phenylacetamidomethyl-(Kel F-g-styrene) resin, an insoluble, noncrosslinked support for solid phase peptide synthesis, Israel J. Chem. 17: 243-247 (1978)
5	PE	Kozak, Structural Features in Eukaryotic mRNAs that Modulate the Initiation of Translation The Journal of Biological Chemistry 266:19867-19870 (1991)
5	PF	Kröger *et al.*, "A new calcium binding glycoprotein family constitutes a major diatom cell wall component", EMBO 13:4676-4683 (1996)
5	PG	Kröger *et al.*, "Frustulins: domain consevation in a protein family associated with diatom cell walls", Eur. J. Biochem. 239:259-264 (1996)
5	PH	Lin *et al.*, "Modified RNA sequence pools for *in vitro* selection", *Nucl. Acids Res.*, 22(24):5229-5234; (1994)
5	PI	Liposome Technology, Targeted Drug Delivery and Biological Interaction, vol. III, G. Gregoriadis (ed.), CRC Press, Inc. (1984) Table of Contents
5	PJ	Mahan *et al.*, "Phase Change Enzyme Immunoassay", *Anal. Biochem.*, 162:163-170; (1987)
5	PK	Mengeling *et al.*, A microplate assay for analysis of solution-phase glycosyltransferase reactions: Determination of kinetic constants, Anal. Biochem. 199:286-292 (1991)
5	PL	Millon *et al.*, "Synthesis of a new reagent, ethyl 4-azidobenzoylaminoacetimidate, and its use for RNA-protein cross-linking within *Escherichia coli* ribosomal 30-S subunits", Eur. J. Biochem. 110:485-492 (1980)
5 SwL	PM	Molecular Biology of the Gene, 4th Edition, 1987, ed. Watson et al. The Benjamin/Cummings Pub. Co. Pg 224

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	APPLICANT BRYAN *et al.*	
	FILING DATE March 15, 2001	GROUP 1642

SEP 13 2004

5 SWL		PN	Mosbach, AMP and NAD as 'general ligands', Affinity Techniques. Enzyme Purification: Part B. Methods in Enzymology, Vol. 34, W. B. Jakoby, *et al.* (eds.), Acad. Press, N.Y. (1974)
5		PO	Mosbach et al. Immobilization of enzymes to various acrylic copolymers. Methods in Enzymology 44:53-65 (1976)
5		PP	Mosbach et al. Immobilized coenzymes. Methods in Enzymology 44:859-887 (1976)
5		PQ	Mosbach, K and Mattiasson, B. Multistep enzyme systems. Methods in Enzymology 44:453-478 (1976)
5		PR	Mosbach, K. Immobilized Enzymes. Methods in Enzymology 44:3-7 (1976)
5		PS	Nakamura *et al.*, DNA Sequence of the Gene for the Outer Membrane Lipoprotein of E. coli: an Extremely AT-Rich Promoter, Cell 18:1109-1117 (1979).
5		PT	Needleman *et al.*, "A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins", *J. Mol. Biol.*, 48:443-453; (1970)
5		PU	Nogrady, Medicinal Chemistry, A Biochemical Approach, Oxford University Press, New York pp. 388-392.
5		PV	Ozato *et al.*, Production of transgeniuc fish: introduction and expression of chicken _-crystalline gene in medaka embryos, Cell Differ. Devel. 19:237-244 (1986)
5		PW	Pagratis *et al.*, "Potent 2'-amino-, and 2'-fluoro-2'-deoxyribonucleotide RNA inhibitors of keratinocyte growth factor", *Nature Biotechnol.*, 15:68-73; (1997)
5		PX	Pearson *et al.*, "Improved tools for biological sequence comparison", *Proc. Natl. Acad. Sci. U.S.A.*, 85:2444-2448; (1988)
5		PY	Peffer *et al.*, "Strand-invasion of duplex DNA by peptide nucleic acid oligomers", Proc. Natl. Acad. Sci. U.S.A. 90:10648-10652 (1993)
5		PZ	Pierce Catalog, pp. T123-T154, 1994
5		QA	PIERCE Catalog & Handbook, pp. O90-O110, T155-T200 (1994)
5		QB	PIERCE CATALOG, ImmunoTechnology Catalog & Handbook (1992-1993)
5		QC	Sambrook *et al.*, Molecular Cloning, 2nd ed., Cold Springs Harbor Laboratory press, New York (1989).
5		QD	Sanger *et al.*, DNA sequencing with chain-terminating inhibitors, Proc. Natl. Acad. Sci. USA 74(12):5463-5467 (1977).
5		QE	Schwartz and Dayhoff, eds., Book: #23 "Matrices for Detecting Distant Relationships", Atlas of Protein Sequence and Structure, National Biomedical Research Foundation, pages 353-358; (1979)
5		QF	Sequence Analysis in Molecular Biology, Book: von Heijne, Academic Press, Inc., (1987)
5		QG	Sequence Analysis Primer, Book: Gribskov M. and Devereux J., eds., Stockton Press, New York; (1991)
5		QH	Smith *et al.*, "Comparison of Biosequences", *Adv. Appl. Math.*, 2:482-489; (1981)
5		QI	Stewart and Young, Laboratory techniques in solid phase peptide synthesis, Solid Phase Peptide Synthesis, 2d Ed., Pierce Chemical Co., pp. 53-73 (1984)
5		QJ	Studier *et al.* Use of T7 RNA Polymerase to Direct Expression of Cloned Genes Methods in Enzymology 185: 60-89 (1990)
5		QK	Thorpe *et al.*, "New Coupling Agents for the Synthesis of Immunotoxins Containing a Hindered Disulfide Bond with Improved Stability *in Vivo*", *Cancer Res.*, 47:5924-5931; (1987)
5		QL	Tomme *et al.*, Cellulose-Binding Domains: Classification and Properties, American Chemical Society pp.142-163 (1995).
5		QM	Travis, J., X-rays speed healing of rat spinal cords, Science News 150:214, (1996)
5		QN	Urlaub *et al.*, Effect of Gamma Rays at the Dihydrofolate Reductase Locus: Deletions and Inversions, Somatic Cell and Molecular Genetics 12(6):555-566 (1986).
5 SWL		QO	Walden *et al.*, "Major Histocompatibility Complex-Restricted and Unrestricted Activation of

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	APPLICANT BRYAN *et al.*	
	FILING DATE March 15, 2001	GROUP 1642

SWL		Helper T Cell Lines by Liposome-Bound Antigens", *J. Mol. Cell. Immunol.*, 2:191-197; (1986)
5 SWL	QP	Wang *et al.* Implications for bcd mRNA localization from spatial distribution of exu protein in Drosophila oogenesis Nature 369:400-403 (1994)
5	QQ	Wawrzynczak *et al.*, "Molecular and biological properties of an abrin A chain immunotoxin designed for therapy of human small cell lung cancer", *Br. J. Cancer*, 66:361-366; (1992)
5	QR	Wellhöner *et al.*, "Uptake and Concentration of Bioactive Macromolecules by K562 Cells via the Transferrin Cycle Utilizing an Acid-labile Transferrin Conjugate", *J. Biol. Chem.*, 266(7):4309-4314; (1991)
5 SWL	QS	Wu *et al.* Resonance Energy Transfer: Methods and Application Analytical Biochemistry 218:1-13 (1994)

Title: RENILLA RENIFORMIS FLUORESCENT PROTEINS, NUCLEIC ACIDS ENCODING THE FLUORESCENT PROTEINS AND THE USE THEREOF IN DIAGNOSTICS, HIGH THROUGHPUT SCREENING AND NOVELTY ITEMS

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